

Datasheet

2.5" SATA SSD

3IE7 series

- 2.5" SATA Slim SATA III solution for industrial field
- Support iSLC/Ultra iSLC technology
- High IOPS
- iSMART disk health monitoring
- iPower Guard Protection
- iData Guard for abnormal power failure



Introduction

Innodisk 2.5" SATA SSD 3IE7 is SATA III 6.0 Gb/s flash based disk, which adopts latest SATA III NAND controller with Innodisk's exclusive L³ FW architecture. The upgraded L³ FW architecture, combining Innodisk signature 4K mapping algorithm L² FW architecture with powerful LDPC technology, makes 3IE7 series have outstanding high IOPS, better data integrity and extended lifespan through reducing the bad block number happening. Built-in thermal sensor, and iData Guard ensure data integrity and reliability of 2.5" SATA SSD 3IE7 for industrial applications.

2.5" SATA SSD

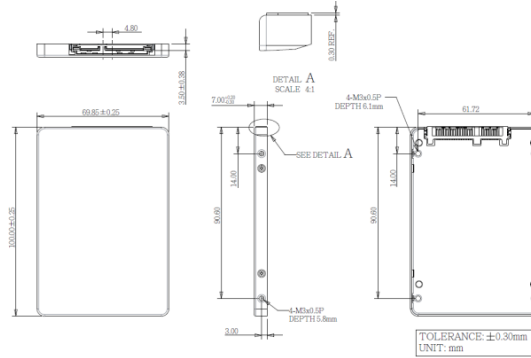
3IE7 series

Contact us for more information about the 2.5" SATA SSD 3IE7.

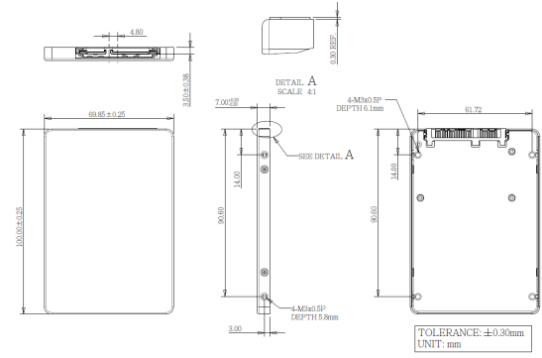
Innodisk is a service-driven provider of industrial embedded flash and DRAM storage products and technologies, with a focus on the industrial/embedded, aerospace and defense, and cloud computing industries.

Diagram

* Full PCB



* Slim inside



Specifications

Interface	SATA III
Flash Type	iSLC (3D TLC)
Capacity	20GB~640GB
Max. Channels	4
Sequential R/W (MB/sec, max.)*	560 / 510 MB/s
4KB Random (QD32) R/W (IOPS)**	87,000/75,000
Max. Power Consumption	5.6 W
Thermal Sensor	√
External DRAM Buffer	-
H/W Write Protect	-
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	69.8 X 100.0 X 6.8 mm
Environment	Vibration: 20G @ 7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -40°C ~ +85°C MTBF: 3 million hours
* Sequential performance based on CystalDiskMark 5.1.2 with file size 1000MB of Queue Depth 32	

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Ordering Information (Please refer to TPS for detail)

Operation Temp.	20GB	40GB	80GB	160GB	320GB	640GB
Standard Grade (0°C ~ +70°C)	DHS25-20GDK1EC3DF	DHS25-40GDK1% C* & F	DHS25-80GDK1% C* QF	DHS25-A60DK1% C* QF	DHS25-D2GDK1% C* QF	DHS25-F4GDK1KCCQF
Industrial Grade (-40°C ~ +85°C)	DHS25-20GDK1EW3DF	DHS25-40GDK1% W* & F	DHS25-80GDK1% W* QF	DHS25-A60DK1% W* QF	DHS25-D2GDK1% W* QF	DHS25-F4GDK1KWCQF

%: E: 64 layers 3D TLC; K: 112 layers 3D TLC

*: PCB version control

&: D: Dual channels; Q: Quad channels

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